

Last Modified: 4-26-2007		1.6 J
Service Category: Audio/Visual/Telematics	Section: Navigation/Multi Info Display	
Model Year: 2006	Model: Prius	Doc ID: RM0000011FP00CX
Title: NAVIGATION: NAVIGATION SYSTEM: Steering Pad Switch Circuit (2006 Prius)		

Steering Pad Switch Circuit

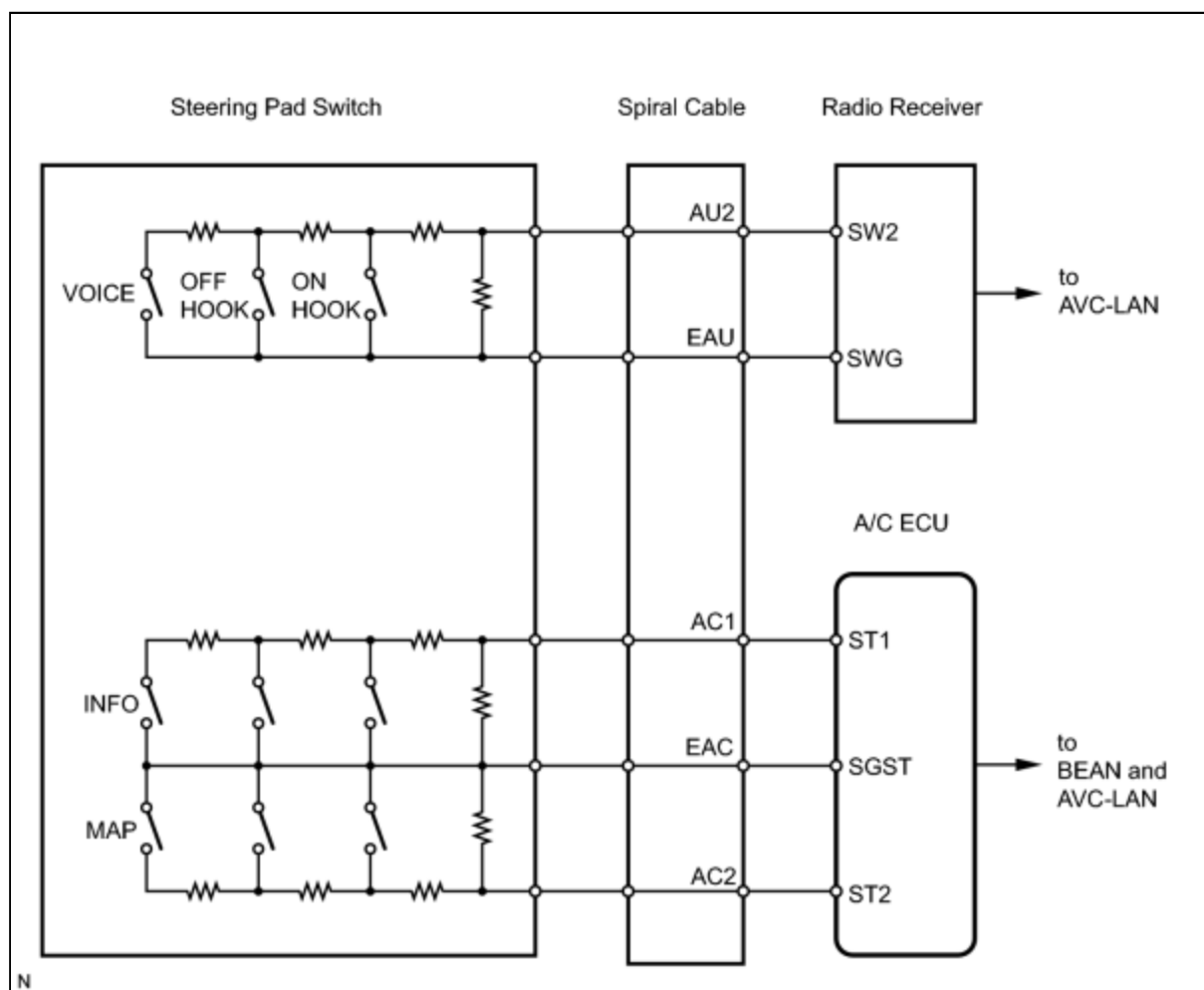
DESCRIPTION

This circuit sends an operation signal from the steering pad switch to the radio receiver.

If there is an open in the circuit, the navigation system cannot be operated using the steering pad switch.

If there is a short in the circuit, the resulting condition is the same as if the switch were continuously depressed. Therefore, the navigation system cannot be operated using the steering pad switch, and the navigation system itself cannot function.

WIRING DIAGRAM



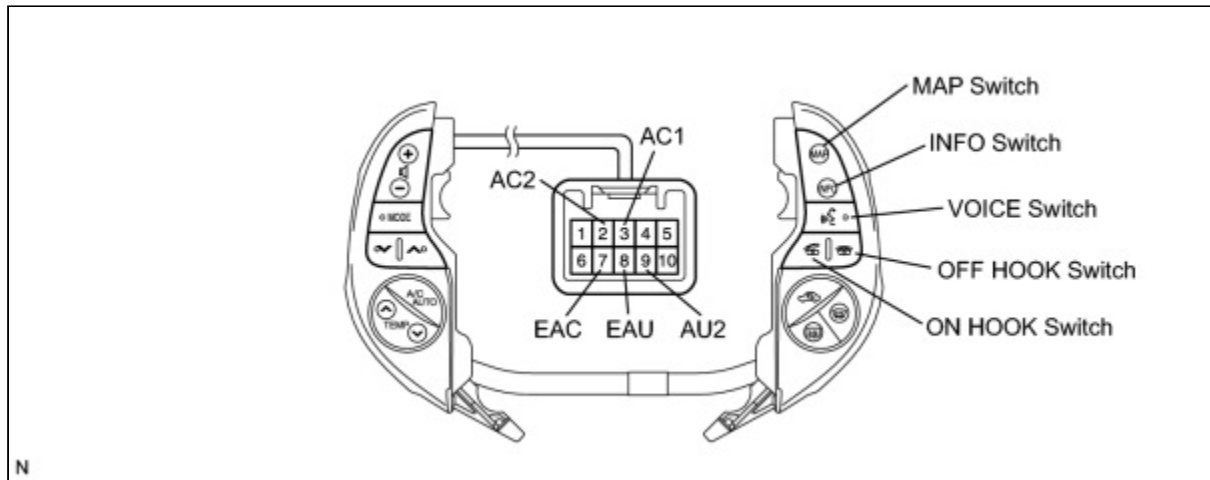
INSPECTION PROCEDURE

NOTICE:

The vehicle is equipped with an SRS (Supplemental Restraint System) which includes components such as airbags. Before servicing (including removal or installation of parts), be sure to read the precautionary notice for the Supplemental Restraint System INFO.

PROCEDURE

1. INSPECT STEERING PAD SWITCH ASSEMBLY



- (a) Disconnect the switch connector.
- (b) Measure the resistance of the switch.

Standard resistance:

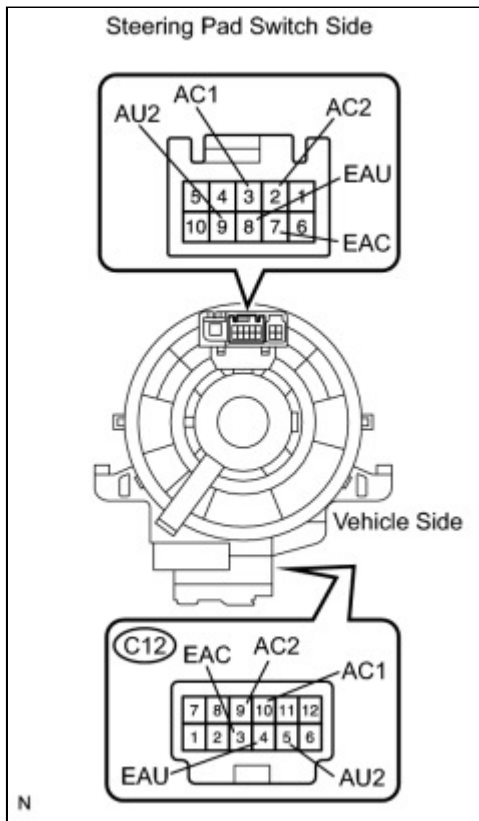
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
9 (AU2) - 8 (EAU)	No switch is pushed	100 k Ω or higher
9 (AU2) - 8 (EAU)	VOICE switch pushed	3,110 Ω
9 (AU2) - 8 (EAU)	ON HOOK switch pushed	329 Ω
9 (AU2) - 8 (EAU)	OFF HOOK switch pushed	1,000 Ω
3 (AC1) - 7 (EAC)	Not pushed	30 k Ω or higher
3 (AC1) - 7 (EAC)	INFO switch pushed	3,062 Ω
2 (AC2) - 7 (EAC)	Not pushed	30 k Ω or higher
2 (AC2) - 7 (EAC)	MAP switch pushed	3,062 Ω

NG ▶ REPLACE STEERING PAD SWITCH ASSEMBLY

OK



2. INSPECT SPIRAL CABLE



(a) Disconnect the cable connectors.

(b) Measure the resistance of the cable.

Standard resistance:

TESTER CONNECTION	SPIRAL CABLE POSITION	SPECIFIED CONDITION
C12-4 (EAU) - 8 (EAU)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
C12-5 (AU2) - 9 (AU2)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
C12-3 (EAC) - 7 (EAC)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
C12-9 (AC2) - 2 (AC2)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
C12-10 (AC1) - 3 (AC1)	Center	Below 1 Ω
	2.5 rotations to the left	

2.5 rotations to the right

NOTICE:

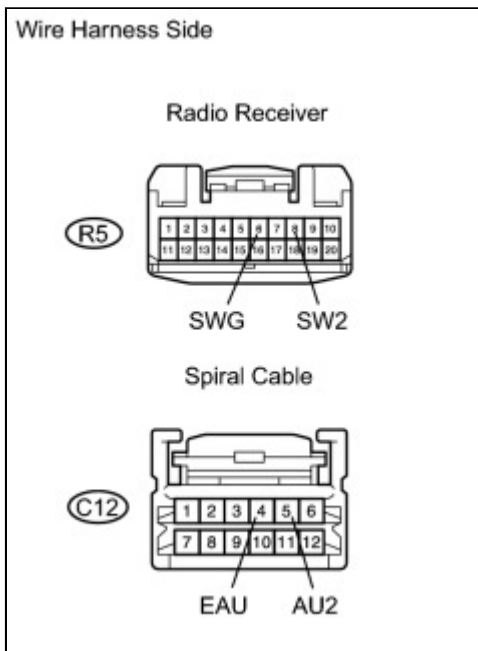
The spiral cable is an important part of the SRS airbag system. Incorrect removal or installation of the spiral cable may prevent the airbag from deploying. Be sure to read the page shown in the brackets  .

NG  **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK



3. CHECK WIRE HARNESS (SPIRAL CABLE - RADIO RECEIVER)



(a) Disconnect the R5 receiver connector.

(b) Disconnect the C12 cable connector.

(c) Measure the resistance of the wire harness side connectors.

Standard resistance:

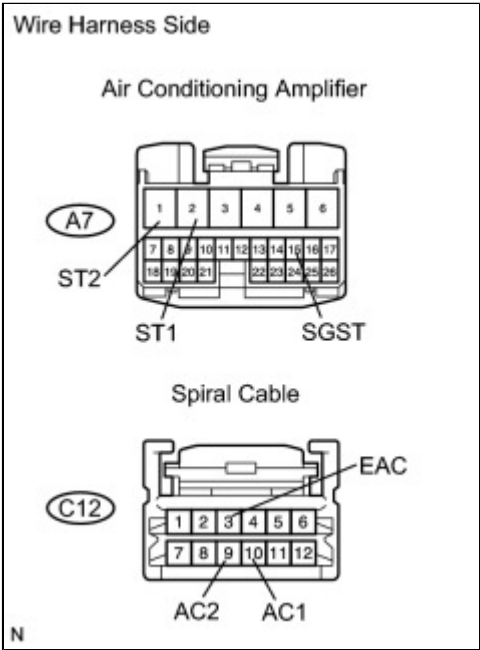
TESTER CONNECTION	SPECIFIED CONDITION
R5-8 (SW2) - C12-5 (AU2)	Below 1 Ω
R5-6 (SWG) - C12-4 (EAU)	Below 1 Ω
R5-8 (SW2) - Body ground	10 k Ω or higher
R5-6 (SWG) - Body ground	10 k Ω or higher

REPAIR OR REPLACE HARNESS AND

NG ➡ CONNECTOR

OK
▼

4. CHECK WIRE HARNESS (SPIRAL CABLE - AIR CONDITIONING AMPLIFIER)



(a) Disconnect the A7 amplifier connector.

(b) Disconnect the C12 cable connector.

(c) Measure the resistance of the wire harness side connectors.

Standard resistance:

TESTER CONNECTION	SPECIFIED CONDITION
A7-2 (ST1) - C12-10 (AC1)	Below 1 Ω
A7-15 (SGST) - C12-3 (EAC)	Below 1 Ω
A7-1 (ST2) - C12-9 (AC2)	Below 1 Ω
A7-2 (ST1) - Body ground	10 k Ω or higher
A7-15 (SGST) - Body ground	10 k Ω or higher
A7-1 (ST2) - Body ground	10 k Ω or higher

NG ➡ REPAIR OR REPLACE HARNESS AND CONNECTOR

OK ➡ PROCEED TO NEXT INSPECTION
PROCEDURE SHOWN IN PROBLEM SYMPTOMS TABLE

